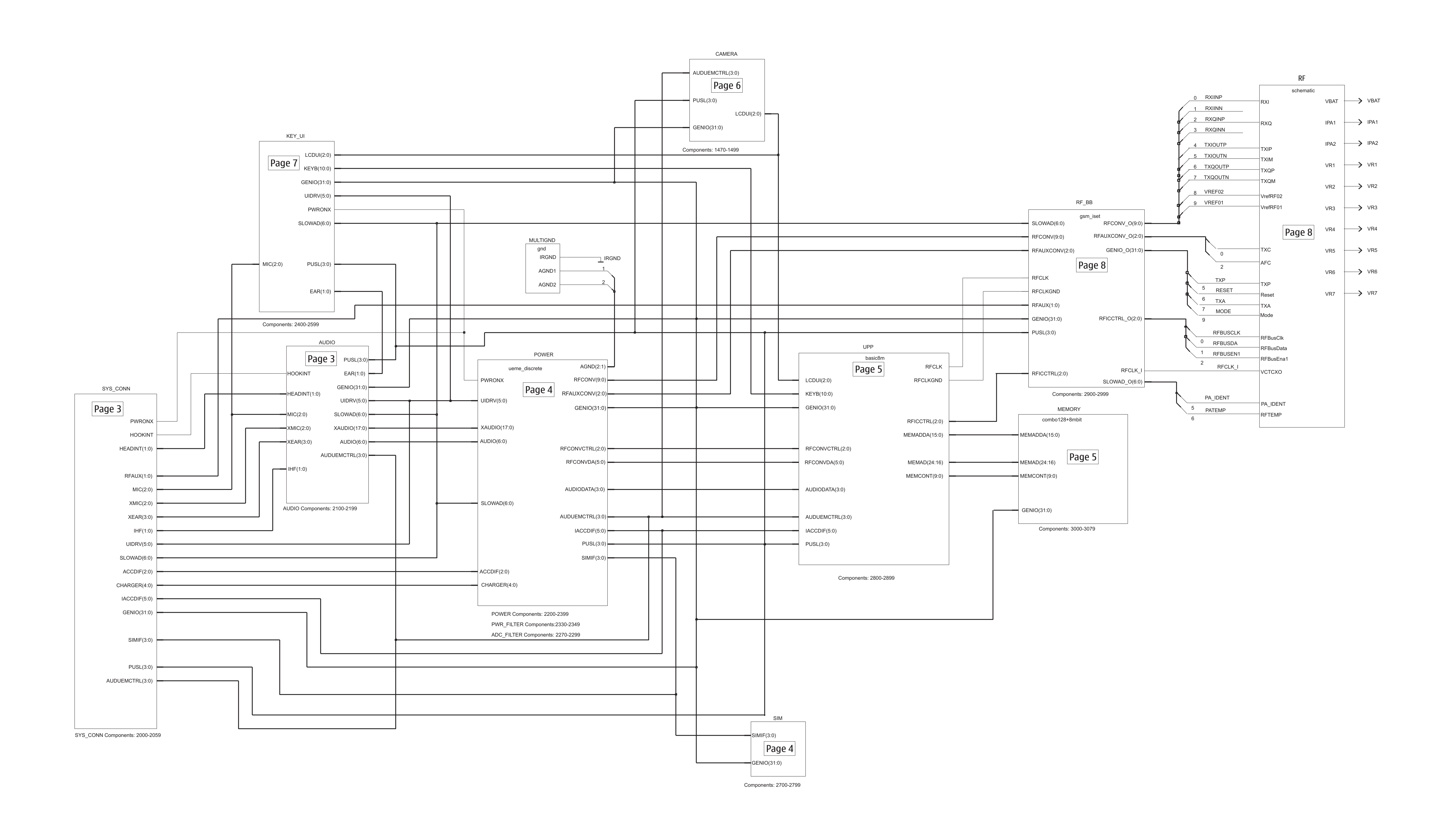
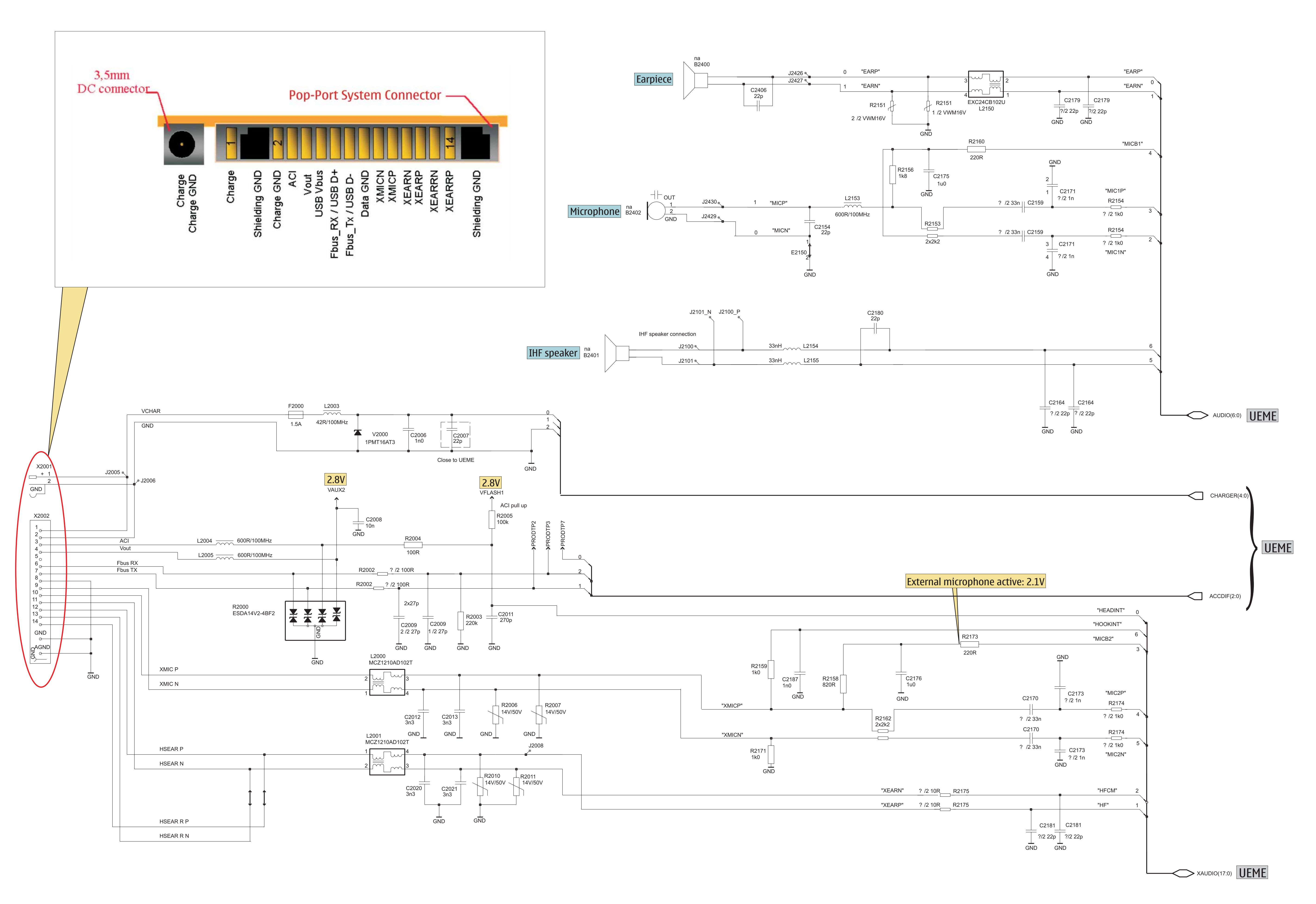
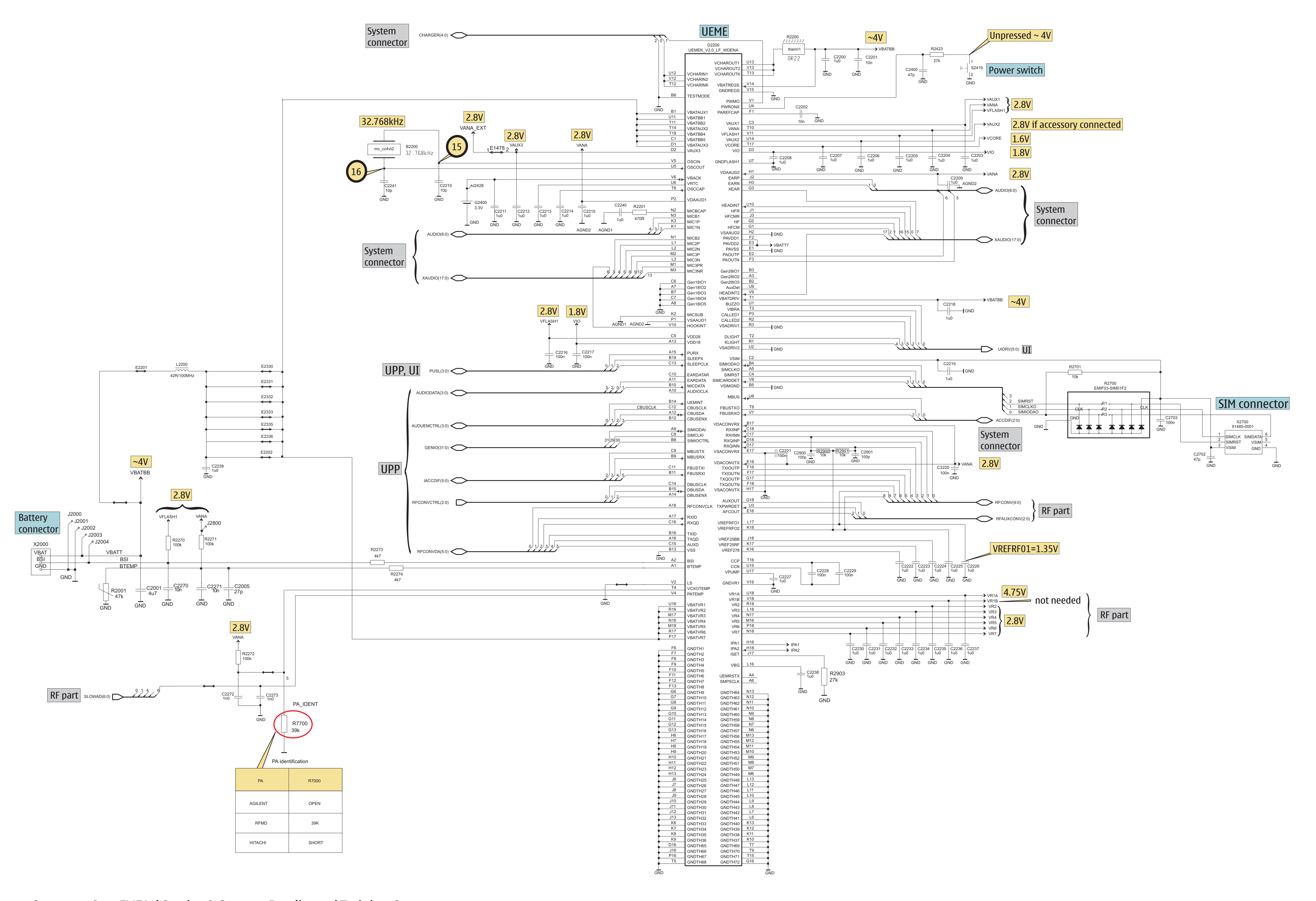


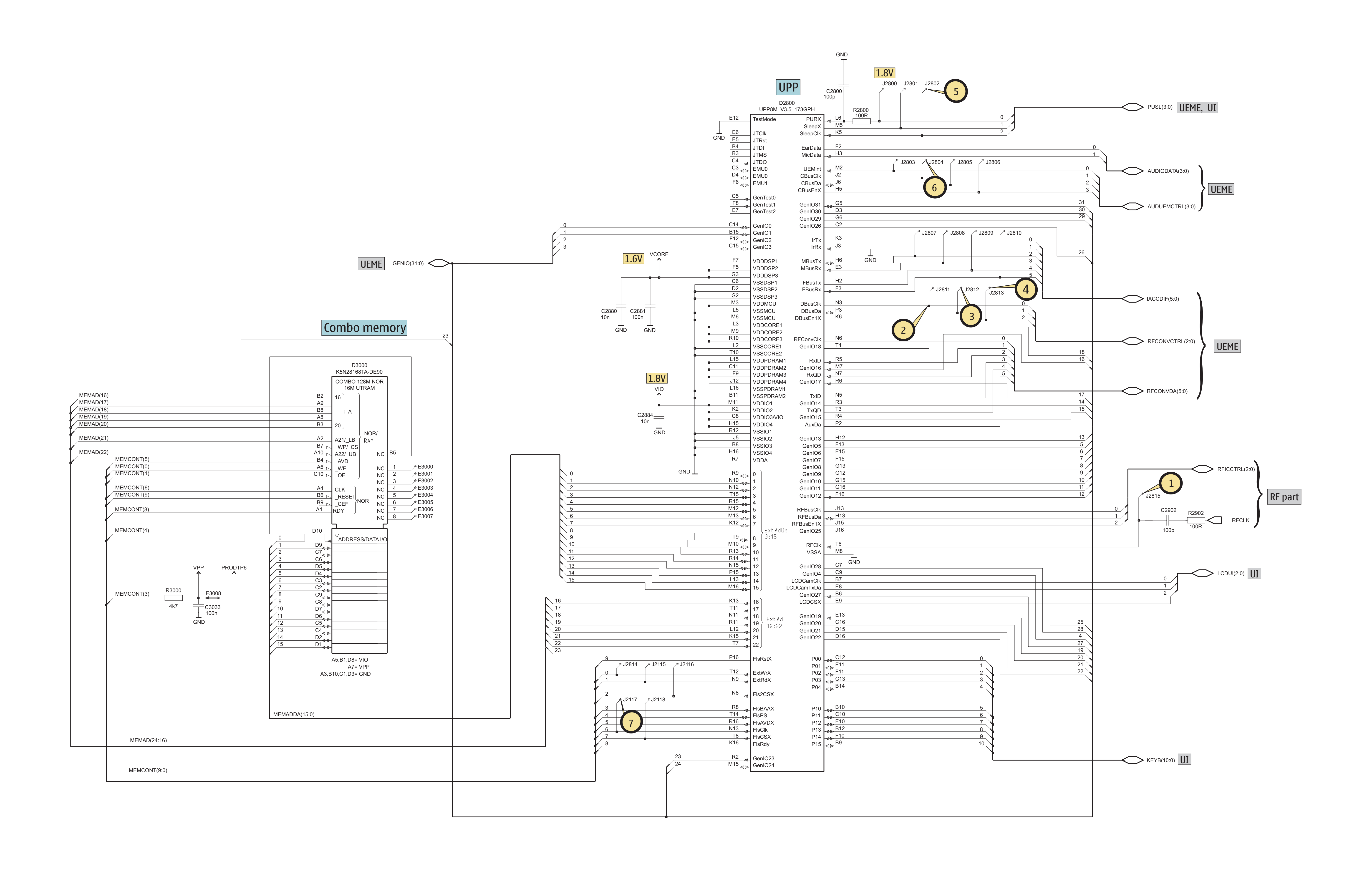
CAMERA
AUDUEMCTRL(3:0)
PUSL(3:0)
LCDUI(2:0)
GENIO(31:0)
Page 6
Components: 1470-1499
KEY_UI
Page 7
LCDUI(2:0)
KEYB(10:0)
GENIO(31:0)
UIDRV(5:0)
PWRONX
SLOWAD(6:0)
MIC(2:0)
PUSL(3:0)
EAR(1:0)
Components: 2400-2599
MULTIGND
gnd
IRGND
AGND1
AGND2
AUDIO
Page 3
PUSL(3:0)
HOOKINT
EAR(1:0)
HEADINT(1:0)
GENIO(31:0)
UIDRV(5:0)
MIC(2:0)
SLOWAD(6:0)
XMIC(2:0)
XAUDIO(17:0)
XEAR(3:0)
AUDIO(6:0)
AUDUEMCTRL(3:0)
IHF(1:0)
AUDIO Components: 2100-2199
SYS_CONN
Page 3
PWRONX
HOOKINT
HEADINT(1:0)
RFAUX(1:0)
MIC(2:0)
XMIC(2:0)
XEAR(3:0)
IHF(1:0)
UIDRV(5:0)
SLOWAD(6:0)
ACCDIF(2:0)
CHARGER(4:0)
IACCDIF(5:0)
GENIO(31:0)
SIMIF(3:0)
PUSL(3:0)
AUDUEMCTRL(3:0)
SYS_CONN Components: 2000-2059
POWER
ueme_discrete
Page 4
AGND(2:1)
PWRONX
RFCONV(9:0)
RFAUXCONV(2:0)
UIDRV(5:0)
GENIO(31:0)
XAUDIO(17:0)
AUDIO(6:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
AUDIODATA(3:0)
SLOWAD(6:0)
AUDUEMCTRL(3:0)
IACCDIF(5:0)
PUSL(3:0)
SIMIF(3:0)
ACCDIF(2:0)
CHARGER(4:0)
POWER Components: 2200-2399
PWR_FILTER Components:2330-2349
ADC_FILTER Components: 2270-2299
UPP
basic8m
Page 5
RFCLK
LCDUI(2:0)
RFCLKGND
KEYB(10:0)
GENIO(31:0)
RFICCTRL(2:0)
MEMADDA(15:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
MEMAD(24:16)
MEMCONT(9:0)
AUDIODATA(3:0)
AUDUEMCTRL(3:0)
IACCDIF(5:0)
PUSL(3:0)
Components: 2800-2899
SIM
SIMIF(3:0)
Page 4
GENIO(31:0)
Components: 2700-2799
RF_BB
gsm_iset
SLOWAD(6:0)
RFCONV_O(9:0)
RFCONV(9:0)
RFAUXCONV_O(2:0)
RFAUXCONV(2:0)
GENIO_O(31:0)
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RFCLK
RFCLKGND
RFAUX(1:0)
GENIO(31:0)
RFICCTRL_O(2:0)
PUSL(3:0)
RFCLK_I
RFICCTRL(2:0)
SLOWAD_O(6:0)
Components: 2900-2999
MEMORY
combo128+8mbit
MEMADDA(15:0)
Page 5
MEMAD(24:16)
MEMCONT(9:0)
GENIO(31:0)
Components: 3000-3079
RF
schematic
RXIINP
RXIINN
RXQINP
RXQINN
TXIOUTP
TXIOUTN
TXQOUTP
TXQOUTN
VREF02
VREF01
RXI
RXQ
TXIP
TXIM
TXQP
TXQM
VrefRF02
VrefRF01
TXC
AFC
TXP
RESET
TXA
MODE
Reset
Mode
RFBUSCLK
RFBUSDA
RFBUSEN1
RFBusClk
RFBusData
RFBusEna1
RFCLK_I
VCTCXO
PA_IDENT
PATEMP
RFTEMP
Page 8
VBAT
IPA1
IPA2
VR1
VR2
VR3
VR4
VR5
VR6
VR7

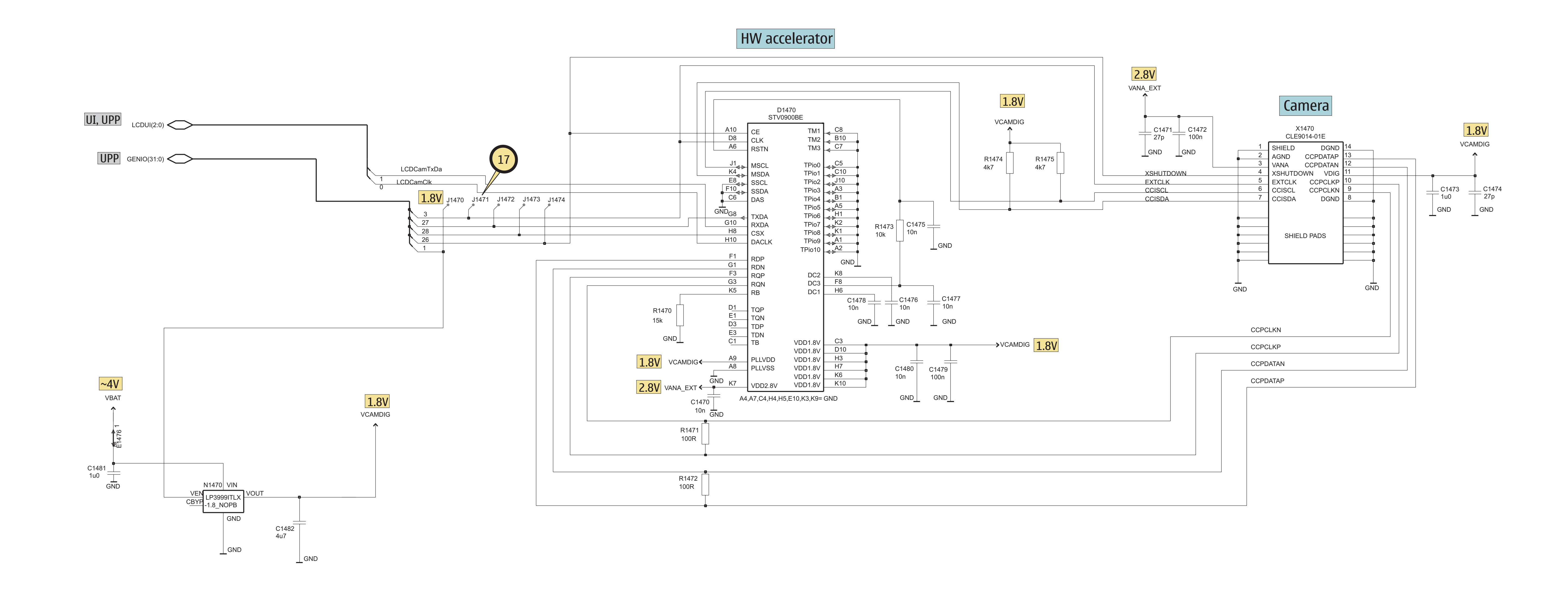


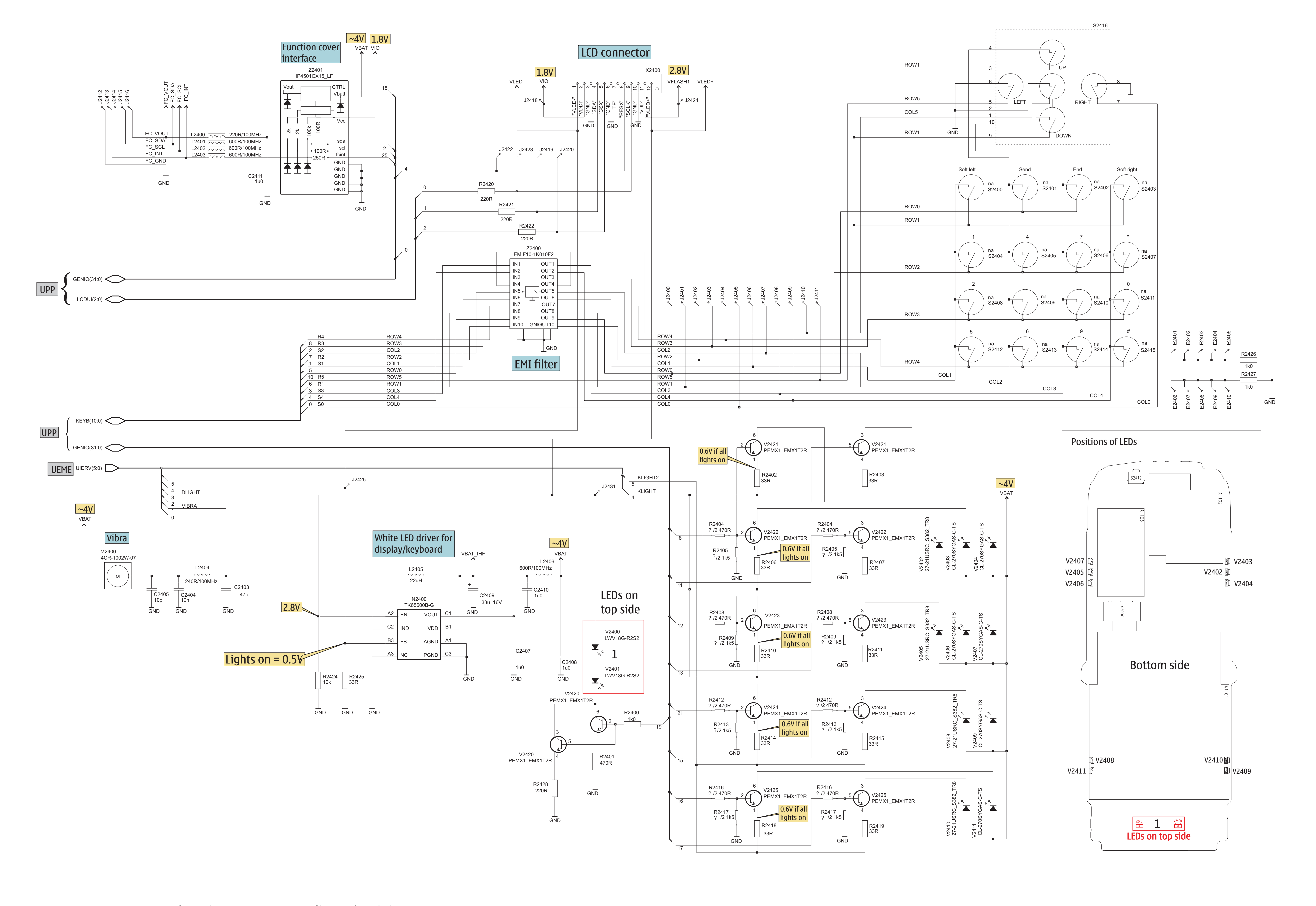
3,5mm
DC connector
Pop-Port System Connector
Charge
Charge GND
Charge
Shielding GND
Charge GND
ACI
Vout
USB Vbus
Fbus_RX / USB D+
Fbus_Tx / USB D-
Data GND
XMICN
XMICP
XEARN
XEARP
XEARRN
XEARRP
Shielding GND
Earpiece
Microphone
IHF speaker
IHF speaker connection
EXC24CB102U
L2150
"EARP"
"EARN"
"MICB1"
"MICP"
"MICN"
"MIC1P"
"MIC1N"
AUDIO(6:0)
UEME
VCHAR
GND
F2000
1.5A
L2003
42R/100MHz
V2000
1PMT16AT3
Close to UEME
CHARGER(4:0)
UEME
2.8V
VAUX2
2.8V
VFLASH1
ACI pull up
ACI
Vout
Fbus RX
Fbus TX
R2000
ESDA14V2-4BF2
PRODTP2
PRODTP3
PRODTP7
External microphone active: 2.1V
ACCDIF(2:0)
"HEADINT"
"HOOKINT"
"MICB2"
XMIC P
XMIC N
L2000
MCZ1210AD102T
"XMICP"
"XMICN"
"MIC2P"
"MIC2N"
L2001
MCZ1210AD102T
HSEAR P
HSEAR N
HSEAR R P
HSEAR R N
"XEARN"
"XEARP"
"HFCM"
"HF"
XAUDIO(17:0)
UEME



PA	R7000
AGILENT	OPEN
RFMD	39K
HITACHI	SHORT


UPP
D2800
UPP8M_V3.5_173GPH
1.8V
1.6V
VCORE
VIO
GND
Combo memory
D3000
K5N28168TA-DE90
COMBO 128M NOR
16M UTRAM
NOR/RAM
ADDRESS/DATA I/O
A5,B1,D8= VIO
A7= VPP
A3,B10,C1,D3= GND
VPP
PRODTP6
R3000
4k7
E3008
C3033
100n
C2800
100p
R2800
100R
C2880
10n
C2881
100n
C2884
10n
C2902
100p
R2902
100R
RFCLK
PUSL(3:0)
UEME, UI
AUDIODATA(3:0)
AUDUEMCTRL(3:0)
UEME
GENIO(31:0)
IACCDIF(5:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
RFICCTRL(2:0)
RF part
LCDUI(2:0)
UI
KEYB(10:0)
MEMADDA(15:0)
MEMAD(24:16)
MEMCONT(9:0)
TestMode
JTClk
JTRst
JTDI
JTMS
JTDO
EMU0
EMU1
GenTest0
GenTest1
GenTest2
PURX
SleepX
SleepClk
EarData
MicData
UEMInt
CBusClk
CBusDa
CBusEnX
MBusTx
MBusRx
FBusTx
FBusRx
DBusClk
DBusDa
DBusEn1X
RFConvClk
RxID
RxQD
TxID
TxQD
AuxDa
RFBusClk
RFBusDa
RFBusEn1X
RFClk
VSSA
LCDCamClk
LCDCamTxDa
LCDCSX
FlsRstX
ExtWrX
ExtRdX
Fls2CSX
FlsBAAX
FlsPS
FlsAVDX
FlsClk
FlsCSX
FlsRdy
Ext AdDa 0:15
Ext Ad 16:22


HW accelerator
Camera
UI, UPP
UPP
LCDUI(2:0)
GENIO(31:0)
LCDCamTxDa
LCDCamClk
17
D1470
STV0900BE
X1470
CLE9014-01E
SHIELD PADS
N1470
LP3999ITLX
-1.8_NOPB
1.8V
2.8V
~4V
VBAT
VCAMDIG
VANA_EXT
XSHUTDOWN
EXTCLK
CCISCL
CCISDA
CCPCLKN
CCPCLKP
CCPDATAN
CCPDATAP
A4,A7,C4,H4,H5,E10,K3,K9= GND


Function cover interface
~4V
1.8V
VBAT
VIO
Z2401
IP4501CX15_LF
LCD connector
1.8V
2.8V
X2400
VLED-
VIO
VFLASH1
VLED+
EMI filter
Z2400
EMIF10-1K010F2
UPP
GENIO(31:0)
LCDUI(2:0)
UPP
KEYB(10:0)
GENIO(31:0)
UEME
UIDRV(5:0)
DLIGHT
VIBRA
KLIGHT2
KLIGHT
~4V
VBAT
Vibra
M2400
4CR-1002W-07
White LED driver for display/keyboard
N2400
TK65600B-G
VBAT_IHF
~4V
VBAT
2.8V
Lights on = 0.5V
LEDs on top side
V2400
LWV18G-R2S2
V2401
LWV18G-R2S2
0.6V if all lights on
~4V
VBAT
S2416
UP
LEFT
RIGHT
DOWN
Soft left
Send
End
Soft right
ROW0
ROW1
ROW2
ROW3
ROW4
ROW5
COL0
COL1
COL2
COL3
COL4
COL5
Positions of LEDs
Bottom side
LEDs on top side
V2403
V2402
V2404
V2407
V2405
V2406
V2408
V2411
V2410
V2409